

Fig. 1



Fig. 2

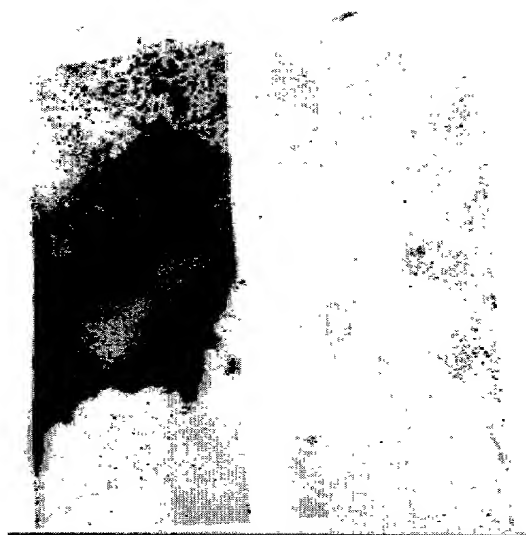


Fig. 3A

Fig. 3B

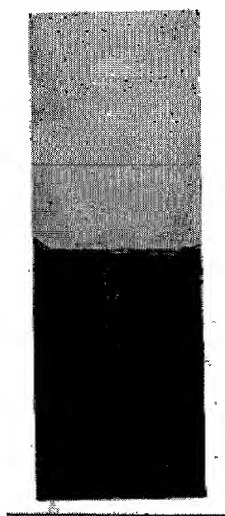


Fig. 4

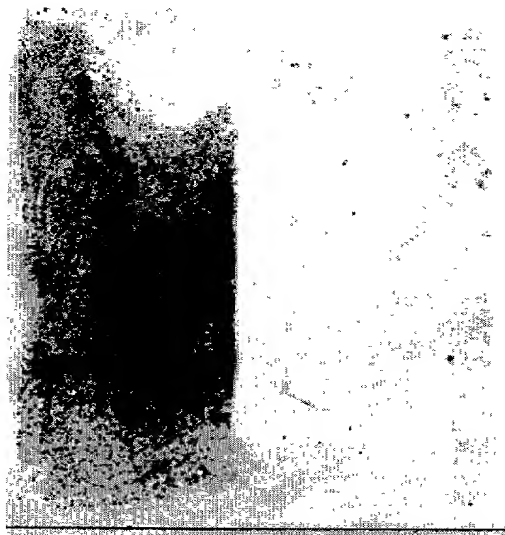


Fig. 5A

Fig. 5B

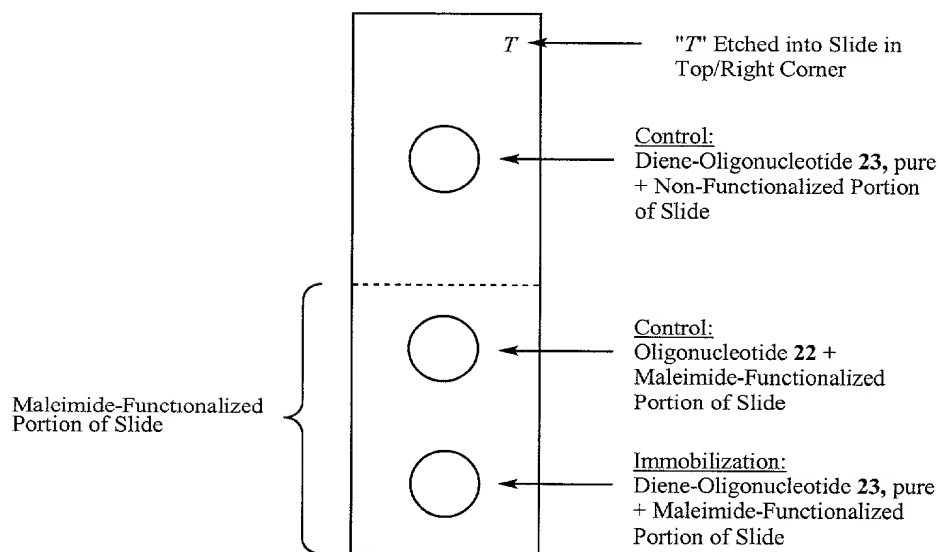


Fig. 6

Placement of Solutions:

Control:

Diene-Oligonucleotide **23**, pure +  
 Non-Functionalized Portion of Slide

Control:

Oligonucleotide **22** +  
 Maleimide-Functionalized Portion of Slide

DA Surface

Immobilization:  
 Diene-Oligonucleotide **23**, pure +  
 Maleimide-Functionalized Portion of Slide

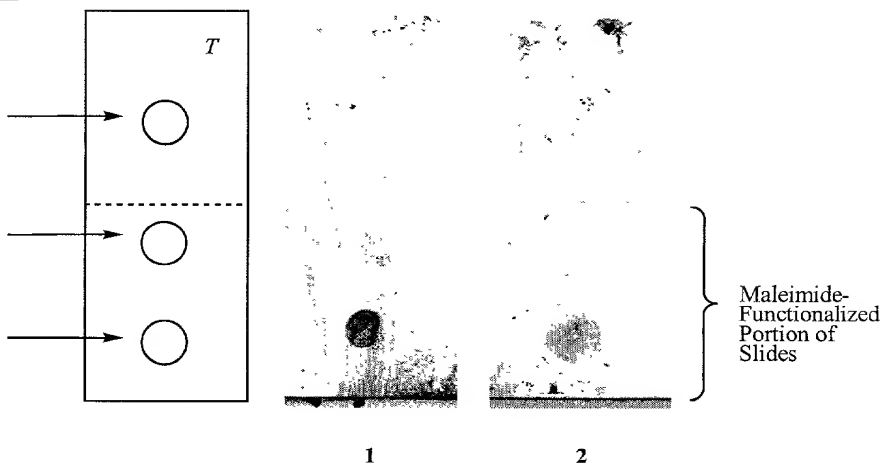


Fig. 7

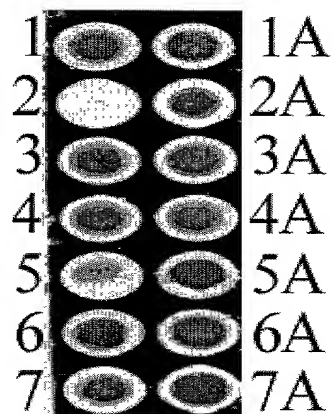


Fig. 8

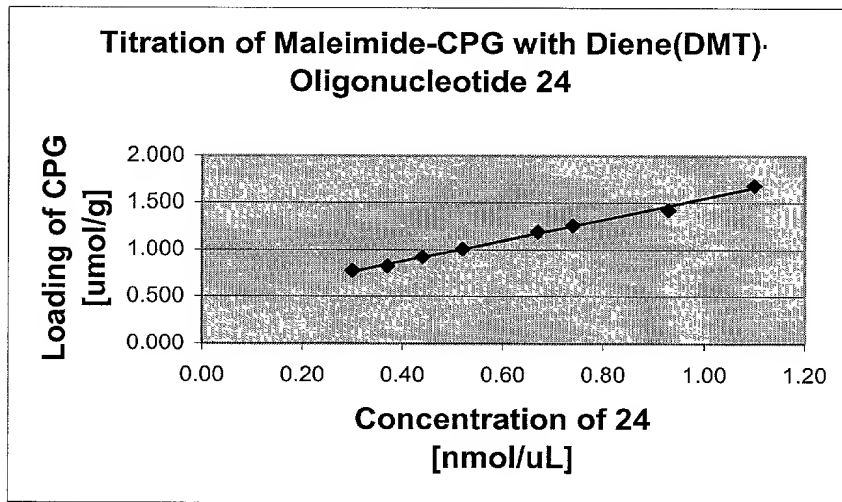


Fig. 9

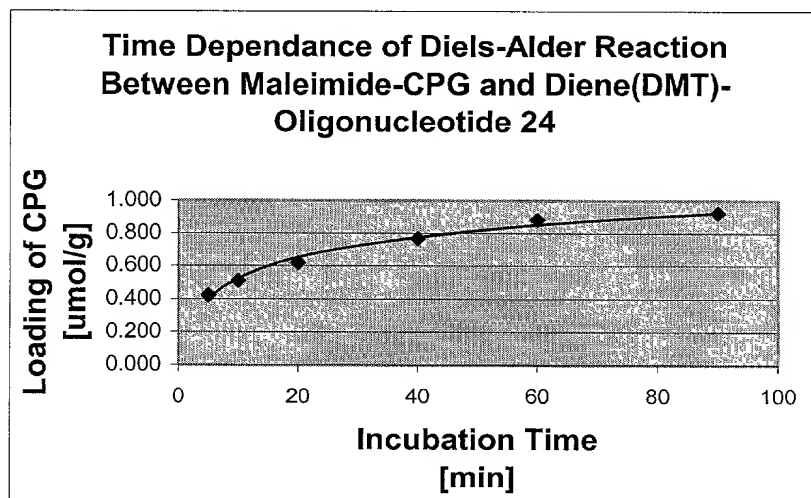


Fig. 10

Placement of Solutions:

Control:

Maleimide-Oligonucleotide  
 26 + Non-Functionalized  
 Portion of Slide

Control:

Oligonucleotide 22 +  
 Diene-Functionalized  
 Portion of Slide

DA Surface Immobilization:

Maleimide-Oligonucleotide  
 26 + Diene-Functionalized  
 Portion of Slide

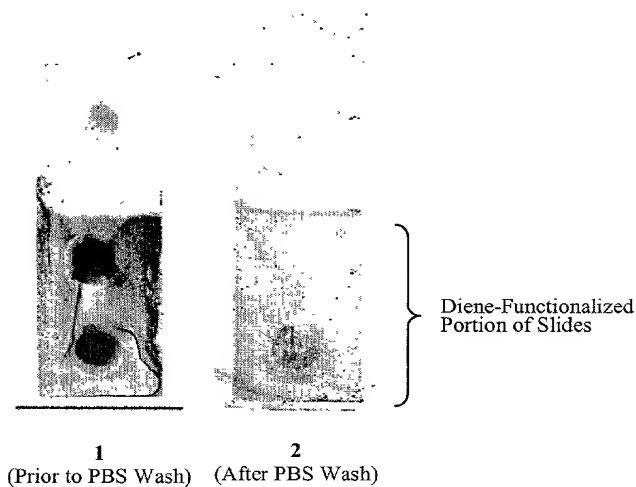
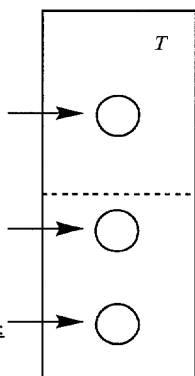
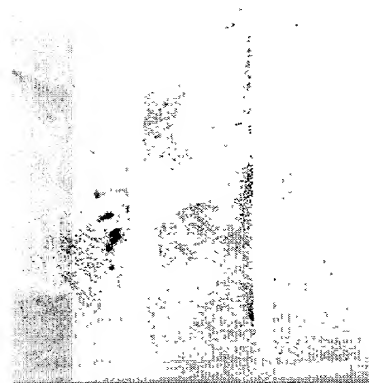


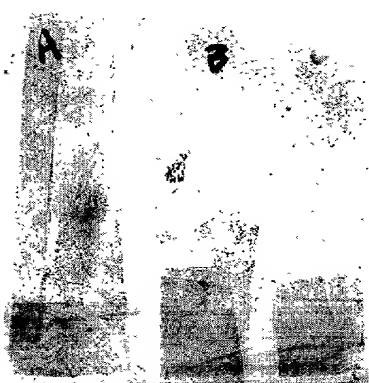
Fig. 11



1A 1B 1C

(Prior to SSC Wash)

Fig. 12A

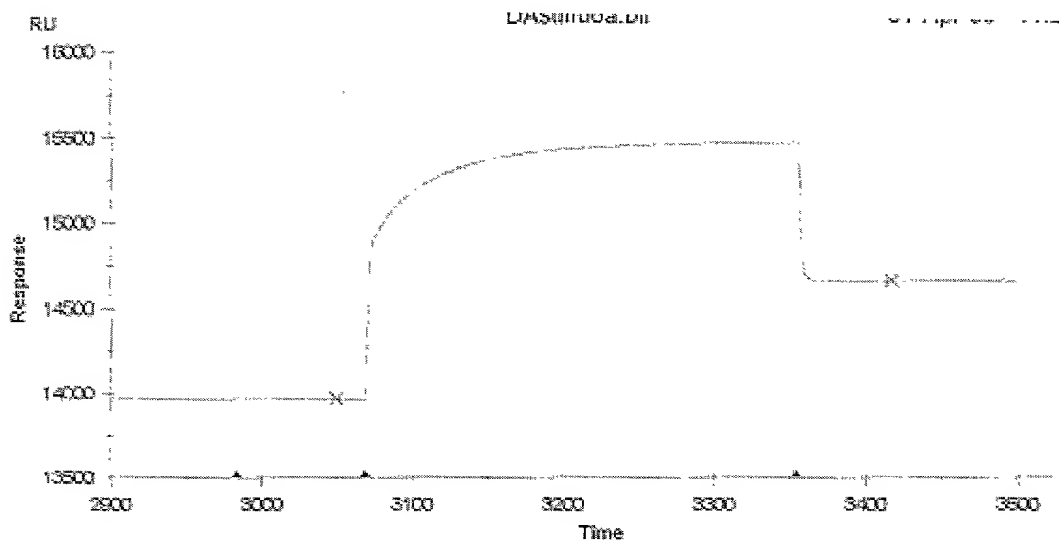


2A 2B 2C

(After SSC Wash)

Fig. 12B

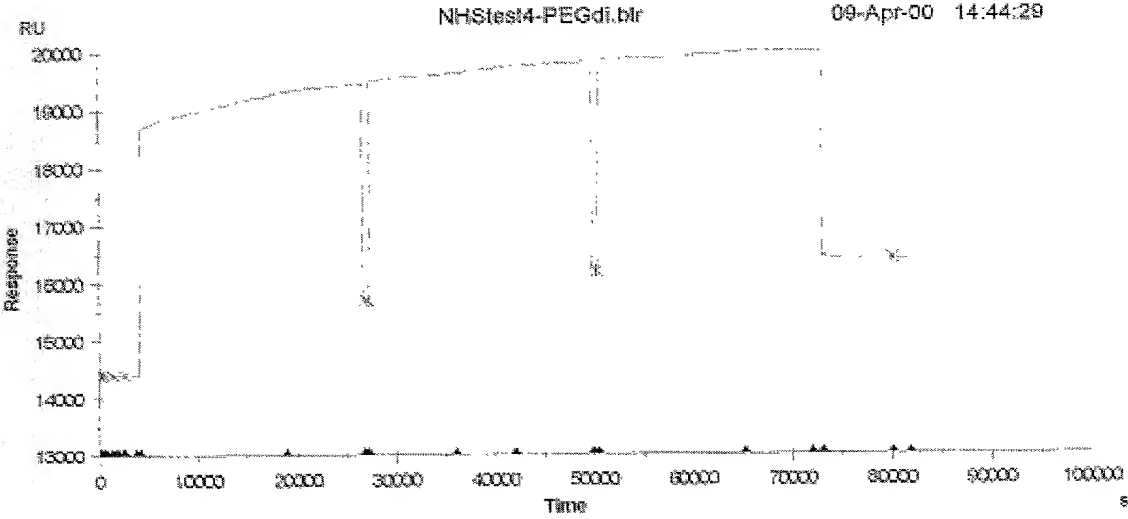
Fig. 13



Fc	Time	AbsResp	Slope	Baseline	RelResp	Id
1	279.5	13922.6	-0.18	Yes	0	maleimide baseline
1	3416.5	14860.0	-0.06	No	737.4	5000-PEG-SH pH 6.5 added

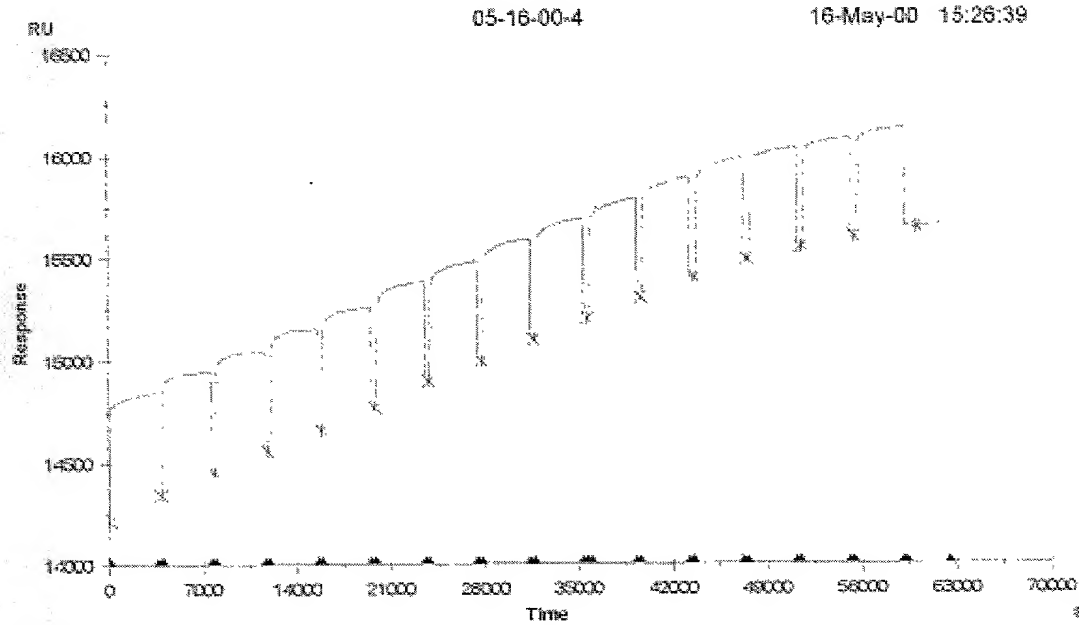
Fig. 14





Fc	Time	AbsResp	Slope	Baseline	RelResp	Id
4	100.5	14414.7	-0.01	Yes	0	maleimide baseline
4	448.5	14413.4	-0.01	No	-1.3	500nM 22-070diene pH 6.5
4	1388.5	14409.8	-0.01	No	-4.9	5500 nM 22070 10 uL/min
4	2600.5	14407.3	-0.01	No	-7.4	5 uM 22-070-diene pH 6.5
4	26984.5	15697.7	-0.03	No	1283.0	7.5 mM 5K-diene pH 6.5 DA1 added
4	50200.5	16181.7	0.22	No	1767.0	7.5 mM 5K-diene pH 6.5 DA2 added
4	80000.5	16395.9	-0.01	No	1981.2	7.5 mM 5K-diene pH 6.5 DA3 added

Fig. 15



Fc	Time	AbsResp	Slope	Baseline	RelResp	Id
4	120.5	14211.3	0.06	Yes	0	maleimide baseline
4	3960.5	14343.4	-0.18	No	132.1	5K-PEG-Anth 1 hr
4	7960.5	14447.3	-0.04	No	235.9	5K-PEG-Anth 2 hr
4	11876.5	14551.6	-0.34	No	340.3	5K-PEG-Anth 3 hr
4	15826.5	14657.0	0.77	No	445.6	5K-PEG-Anth 4 hr
4	19810.5	14765.0	-0.09	No	553.7	5K-PEG-Anth 5 hr
4	23856.5	14894.7	0.00	No	683.4	5K-PEG-Anth 6 hr
4	27806.5	14992.8	-0.02	No	781.5	5K-PEG-Anth 7 hr
4	31730.5	15096.7	-0.05	No	887.4	5K-PEG-Anth 8 hr
4	35690.5	15198.9	-0.01	No	987.5	5K-PEG-Anth 9 hr
4	39614.5	15301.6	-0.22	No	1090.3	5K-PEG-Anth 10 hr
4	43612.5	15402.8	-0.16	No	1191.5	5K-PEG-Anth 11 hr
4	47572.5	15492.6	0.03	No	1281.3	5K-PEG-Anth 12 hr
4	51572.5	15550.1	0.04	No	1338.7	5K-PEG-Anth 13 hr
4	55500.5	15599.5	0.04	No	1388.2	5K-PEG-Anth 14 hr
4	60070.5	15647.1	-0.01	No	1435.8	5K-PEG-Anth 15 hr

Fig. 16

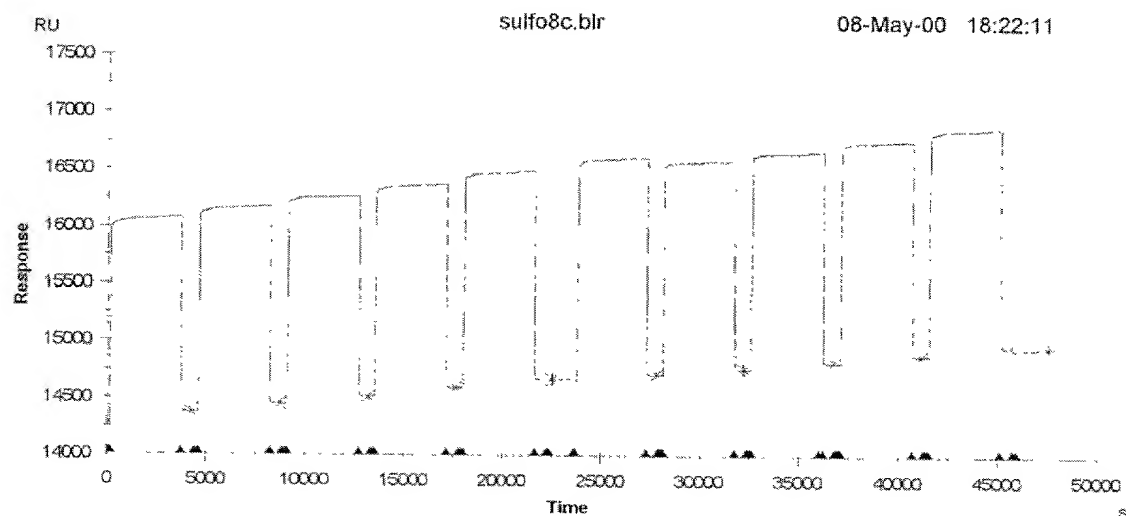


Fig. 17

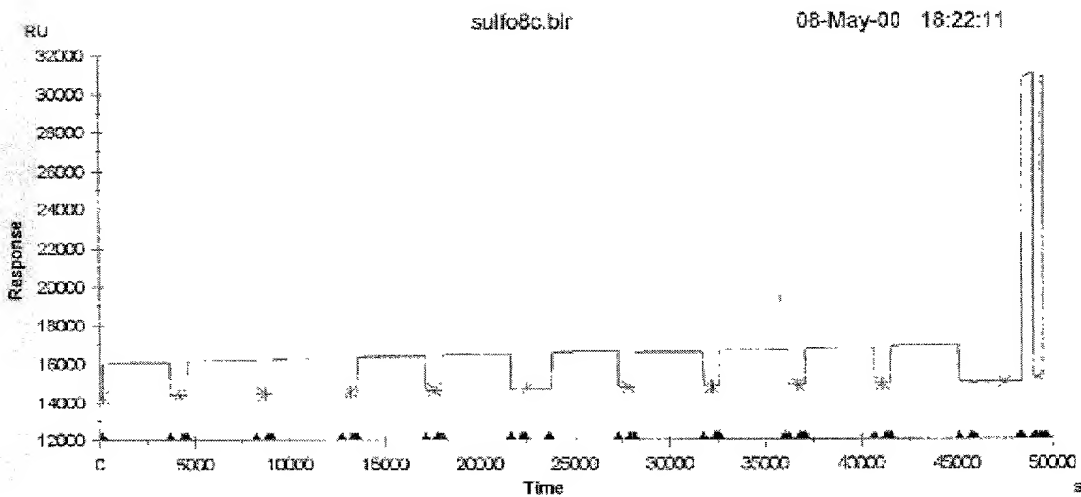


Fig. 18

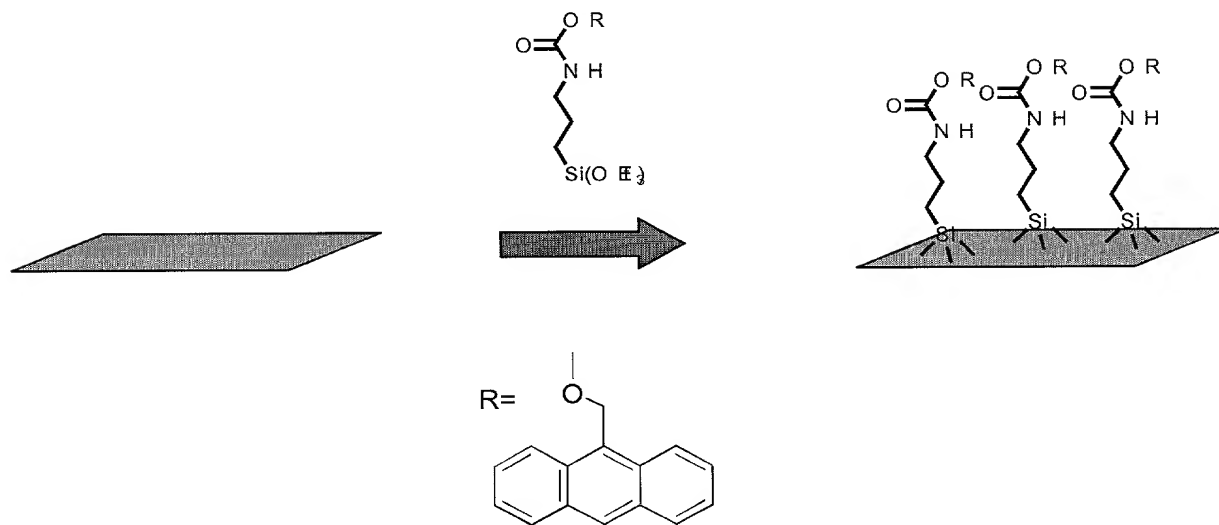


Fig. 19